

# Operating Instructions

## Busch-Welcome®

### Busch-Welcome® 83341 IP gateway



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## 1 Information about the IP gateway

### 1.1 General information

Please read this manual through carefully and adhere to the information listed. This will ensure reliable operation and long service life of your product.

For reasons of clarity this manual does not contain all the detailed information on all the models of the product, nor can it take into consideration all conceivable circumstances related to installation, operation and maintenance. If additional information is required or problems arise that are not dealt with in this manual, the necessary information can be requested from the manufacturer.

The product has been constructed according to the latest valid regulations governing technology and is operationally reliable. It has been tested and left the factory in a technically safe and reliable state. To maintain this state for the period of its operation the specifications of this manual must be observed and adhered to. Modifications and repairs to the product must only be undertaken if the manual expressly permits this.

It is only the adherence to the safety instructions and all safety and warning symbols in this manual that will ensure the optimum protection of the user and the environment as well as the safe and trouble-free operation of the product.

### 1.2 Structure of the manual

- This manual provides you with the detailed technical information about the device, its installation and configuration. The use of the device is explained by means of examples.
- The chapters "Information on the manual", "Safety", "Environmental information" and "Product overview" contain general specifications and basic information as well as a description of functions.
- Chapters "Technical data" and "Mounting and electrical connection" describe the device technology and installation, mounting and the electrical connections.
- Chapters "Commissioning" and "Configuration" contain instructions on commissioning and setting up or integrating the device.
- Chapter "Maintenance" contains information about cleaning, fault condition diagnostics and repairing the device.

### 1.3 Symbols in the manual



#### **Danger - danger to life**

This symbol in connection with the signal word "Danger" indicates dangerous situations which could lead to immediate death or to serious injury.



#### **Warning - danger to life**

This symbol in connection with the signal word "Warning" indicates a dangerous situation which could lead to immediate death or to serious injury.



#### **Caution - risk of injury**

This symbol in connection with the signal word "Caution" indicates a possibly dangerous situation which could lead to slight or moderately serious injury.



#### **Attention - damage to property**

This symbol indicates a possibly harmful situation. Non-observance of the safety instructions can lead to damage or destruction of the product.



#### **Note ...**

This symbol indicates information or references to additional useful topics. This is not a signal word for a dangerous situation.



This symbol refers to integrated videos with additional information on the respective chapter. An Acrobat Reader from Version 9.0 is required to view the videos.



This symbol indicates information on the protection of the environment.

Examples on application, installation and programming are displayed with a grey background.

## 2 Safety



### Warning

#### **Electric voltage!**

Risk of death and fire due to electrical voltage of 230 V.

- Work on the 230V supply system may only be performed by authorised electricians!
- Disconnect the mains power supply prior to installation and/or disassembly!



### Caution

#### **Risk of damaging the device due to external factors!**

Moisture and contamination can damage the device.

That is why the device must be protected against humidity, dirt and damage during transport, storage and operation!

### 2.1 Intended use

The device must only be operated within the specified technical data!

The device is used for door communication and video transmission.

To set up the device requires an external device (laptop).

### 2.2 Improper use

The device is dangerous if used improperly. Any non-intended use is deemed improper use. The manufacturer is not liable for damages resulting from such improper use. The associated risk is borne by the user/operator.

### 2.3 Target groups and qualifications

Installation, commissioning and maintenance of the product must only be carried out by trained and properly qualified electrical installers. The electrical installers must have read and understood the manual and follow the instructions provided. The operator must adhere to the valid national regulations in his country governing the installation, functional test, repair and maintenance of electrical products.

### 2.4 Liability and warranty

Improper use, non-observance of this manual, the use of inadequately qualified personnel, as well as unauthorized modification excludes the liability of the manufacturer for the damages caused. It voids the warranty of the manufacturer.

### 3 Environment



#### Consider the protection of the environment!

Used electric and electronic devices must not be disposed of with domestic waste.

- The device contains valuable raw materials which can be recycled. Therefore, dispose of the device at the appropriate collecting depot.

All packaging materials and devices bear the markings and test seals for proper disposal. Always dispose of the packaging material and electric devices and their components via the authorized collecting depots and disposal companies.

The products meet the legal requirements, in particular the laws governing electronic and electrical devices and the REACH ordinance.

(EU Directive 2002/96/EC WEEE and 2002/95/EC RoHS)

(EU REACH ordinance and law for the implementation of the ordinance (EC) No.1907/2006)

### 4 System requirements



#### Note

When choosing the installation site, please note that the IP gateway must be connected to the router by a LAN cable.

The following system requirements are necessary for smooth operation of the IP gateway:

#### Components for the IP gateway

The following components are required to operate the IP gateway:

- A Busch-Welcome® door communication system including at least one outdoor station and one system controller
- IP network (should connect mobile devices, must have a WLAN connection)
- An outdoor station with camera must be integrated for video transmission

#### As tenants

As tenants, the following come into question for operation with the IP gateway:

- The **Busch-ComfortTouch®** series 2.4 or higher
- Mobile terminal devices with Google Android (from Android 4.0 and Cortex-A8 CPU) or Apple iOS (from iOS 5) operating system

#### Mobile app

If you want to use the Busch-Welcome® mobile app from the Internet, the following requirements must also be met:

- DSL-6000 Internet connection or faster
- Minimum 3G (UMTS) mobile Internet
- Camera for fast configuration via QR code
- DynDNS account



#### Note

To correctly route calls from the Internet, the IP gateway must have a static IP address. If not, a DynDNS service can ensure that calls are correctly routed (see section ""Network configuration" page").

## 5 Start-up

The IP gateway has a user interface that can be reached via an Internet browser. The user interface can be opened from every computer that is part of the same network as the gateway that is to be configured.

For the initial startup of the IP gateway a few basic settings need to be made in this user interface.

Three options are available to you for commissioning:

Commissioning	Description
Version 1 - UPnP	Commissioning with the Windows UPnP service (Windows Vista or higher)
Version 2 - DNS Server	Commissioning via a router with DNS server
Version 3 - Manual	Manual commissioning
Version 4 - IP address	Enter IP address directly



### Information regarding documentation

The Windows Vista interface is used to describe the configuration options.

## 5.1 Commissioning with the Windows UPnP service

### Preconditions:

- There is a DHCP server on the network, e.g. integrated in the router.
- The IP gateway is connected to the router by a LAN cable.
- The PC is connected to the network.
- The IP gateway is connected and ready for operation.

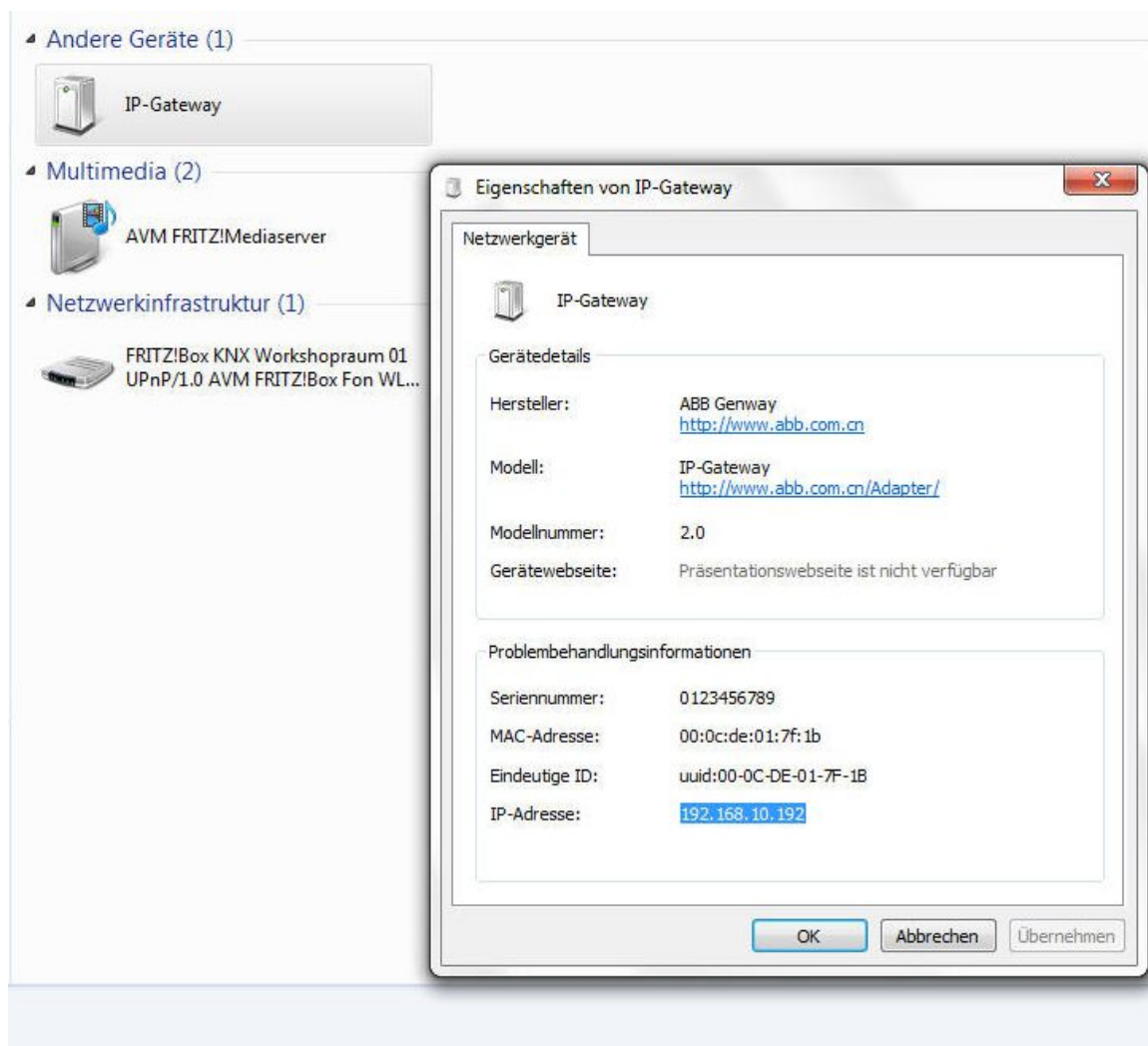


Fig. 1: Windows UPnP service

1. Open Windows Explorer.
2. Click the "Network" entry below the displayed drives.  
The window pane on the right now displays all devices currently on the network.
3. Double-click the IP gateway icon.  
A browser window with the configuration interface automatically opens.



### Note

If the browser does not open automatically, the device properties appear instead. Copy the displayed IP address, e.g. 192.168.10.192, and enter it manually into the browser's address bar.

## 5.2 DNS Server

### Preconditions:

- Router with DNS server

1. Enter the IP gateway followed by the domain name of the router in the address line of your browser. Example:  
IP-Gateway.fritz.box
2. A browser window with the configuration interface opens with a press of the Enter key.

## 5.3 Manual configuration

### Preconditions:

- The IP gateway is connected to the PC directly by a LAN cable.
- The IP gateway is connected and ready for operation.

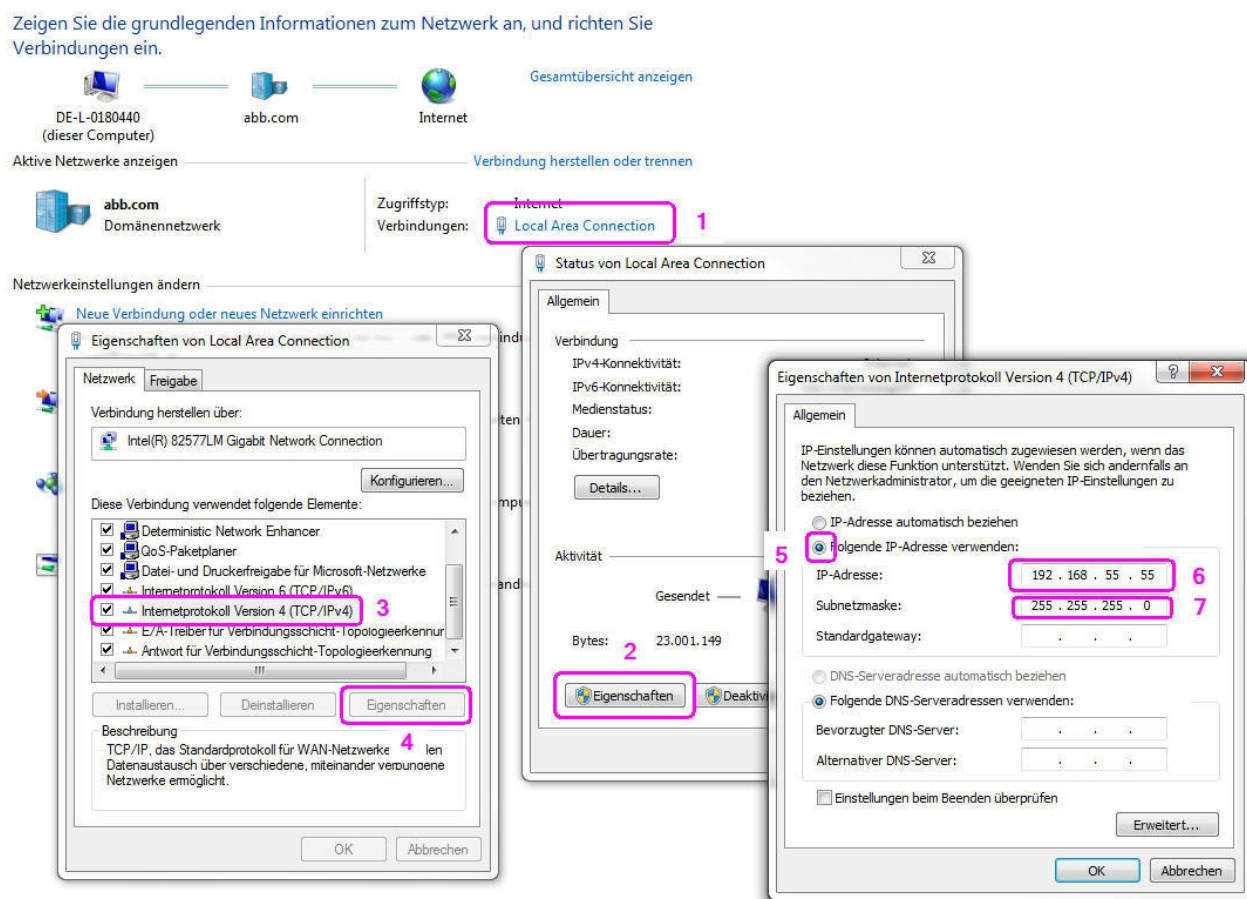


Fig. 2: Manual configuration

1. Link the external device in a common network to the IP gateway.
2. Launch the control panel.
3. Open the "Network and Sharing Center".
4. Open the "Local area connection" (1).
5. In the next window, select the "Properties" (2) button.
6. In the next window, select the list item "Internet Protocol version 4 (TCP/IPv4)" (3).
7. Click the "Properties" button (4).  
The "Properties" window for Internet protocol version 4 (TCP/IPv4) opens.
8. Select the option (5) to manually enter the IP address.
9. Assign an IP address (6) within the same range as the IP gateway.  
The default IP gateway address is 192.168.1.111.



#### Note

The IP address of the PC cannot be identical to the IP address of the IP gateway.  
Select, for example, 192.168.1.55.

10. Click the "Subnet Mask" (7) box.  
The current value is entered automatically and does not need to be changed.
11. Click "OK" to confirm the entry.

#### 5.4 Entering the IP address directly

Enter the IP address of the gateway directly into the address line of your browser.  
You can display the current IP address of the gateway as follows:

1. Open the user interface of your router. Here you will see a list of all connected devices including their names and IP addresses. For example, when using a Fritzbox under: Home network / network list. Copy the IP address of the device "IP gateway" and insert it in the address line of your browser to call up the user interface of the gateway.
2. Use a special program to identify the IP addresses and associated devices in the network. For example: SoftPerfect Network Scanner (Windows); Overlook Fing (iOS/ Android)

## 6 Configuration

All configurations are set in the browser interface.

### 6.1 General buttons in the configuration

#### "Log off" button

Click the "Log off" button at the top right to leave the configuration interface as a logged-on user.  
You can leave the configuration interface at any time.

#### "Reset" button

If you have entered incorrect data in the input fields, click the "Reset" button to clear all your entries.  
All input fields are cleared and you can enter your data again.

#### "Save" button

Click the "Save" button to save your entries and to continue to the next configuration page.

#### Switching to a new configuration page

Click the individual configuration pages in the left column of the configurations to switch to the required configuration page.

### 6.2 Login

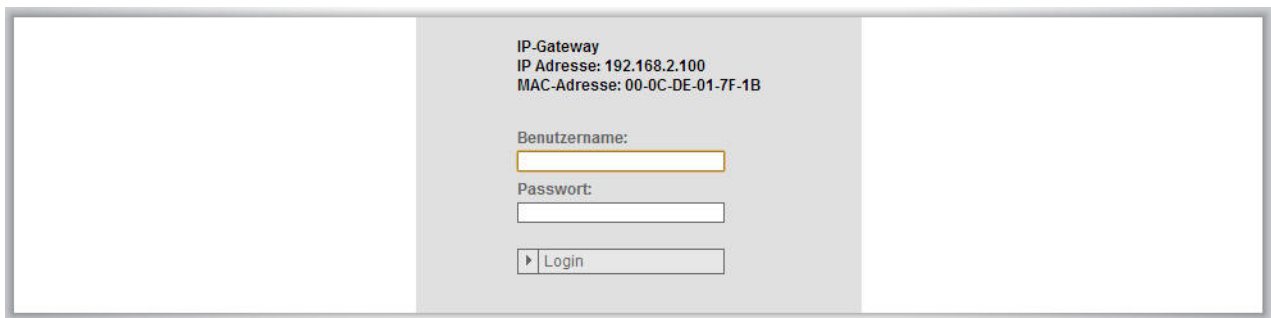
The screenshot shows a login window with a light gray background. On the left is a large white rectangular area. In the center, there is a gray rectangular box containing the following text: "IP-Gateway", "IP Adresse: 192.168.2.100", and "MAC-Adresse: 00-0C-DE-01-7F-1B". Below this, the label "Benutzername:" is followed by a white input field with a yellow border. Underneath that, the label "Passwort:" is followed by another white input field. At the bottom of the gray box is a button with a right-pointing arrow and the text "Login". To the right of the gray box is another large white rectangular area.

Fig. 3: Login window

The IP address shows you the IP address currently used by the device.  
The MAC address shows you the MAC address currently used by the device.

#### User name

Enter the default values in the "User name" and "Password" input fields.  
(default values):

User name:        admin  
Password:        admin

#### "Login" button

Click the "Login" button to display the configuration menu.

The window with the network information appears.

### 6.2.1 RESET



#### Note

If you forget your login data, you can reset the IP gateway back to its factory settings.

The "Reset" button is located on the front of the IP gateway behind a flap.

#### Performing the reset

1. Press the "Reset" button for at least 3 seconds.

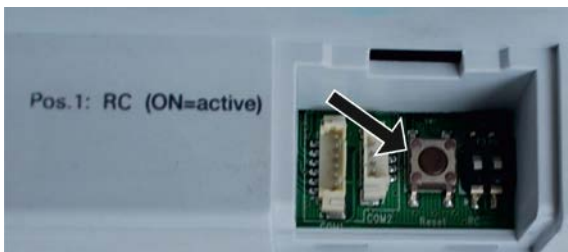


Fig. 4: Position of the RESET button

### 6.3 Network information

The network information appears after logging in.



Fig. 5: Network information

The "Network information" page displays the IP gateway settings currently used.

#### IP address

The IP address is the address for accessing the connected IP gateway.

You need this address to log into the configuration interface!



#### Note

Note the displayed IP address to log into the configuration again, e.g. after restarting the system when creating other users.

#### 6.4 "Network configuration" page

Fig. 6: "Network configuration" page

You can configure your device as required on the "Network configuration" page.

#### DHCP

Select "DHCP" if the device is to automatically obtain an IP address.

#### Static IP address

Please note that the IP address of the gateway does not change when a static address is assigned. A static IP address only needs to be assigned in exceptional cases to manually configure the network. Click the "Static IP address" check box to enter the following addresses:

The following option is also available:

#### External IP / hostname

Enter the DynDNS address for access via the Internet or from other networks.

Proceed as follows::

To access the IP gateway from the Internet or other networks (changing IP addresses), the hostname has to be converted to the current IP address.



#### Note

In this case, there must be an account for a DynDNS provider (DDNS provider).

1. Enter the specified DynDNS address in the "*External IP / Hostname*" field.
2. Set up forwarding for ports 50600 - 50700 (TCP and UDP) in your router as shown in the example.



### Note

The example shown may differ based on the router used.

Opening several ports makes it possible to integrate multiple mobile devices.

### Example based on a FRITZ!Box



Fig. 7: Device can access the Busch-Welcome® app

After setting up the external IP address and forwarding the ports, you can access the Busch-Welcome® system on the Internet from a mobile device using the Busch-Welcome® app.



### Note

You can find more information in the "Integrating mobile end devices with the Busch-Welcome® app" chapter.

## 6.5 "Basic settings" configuration page

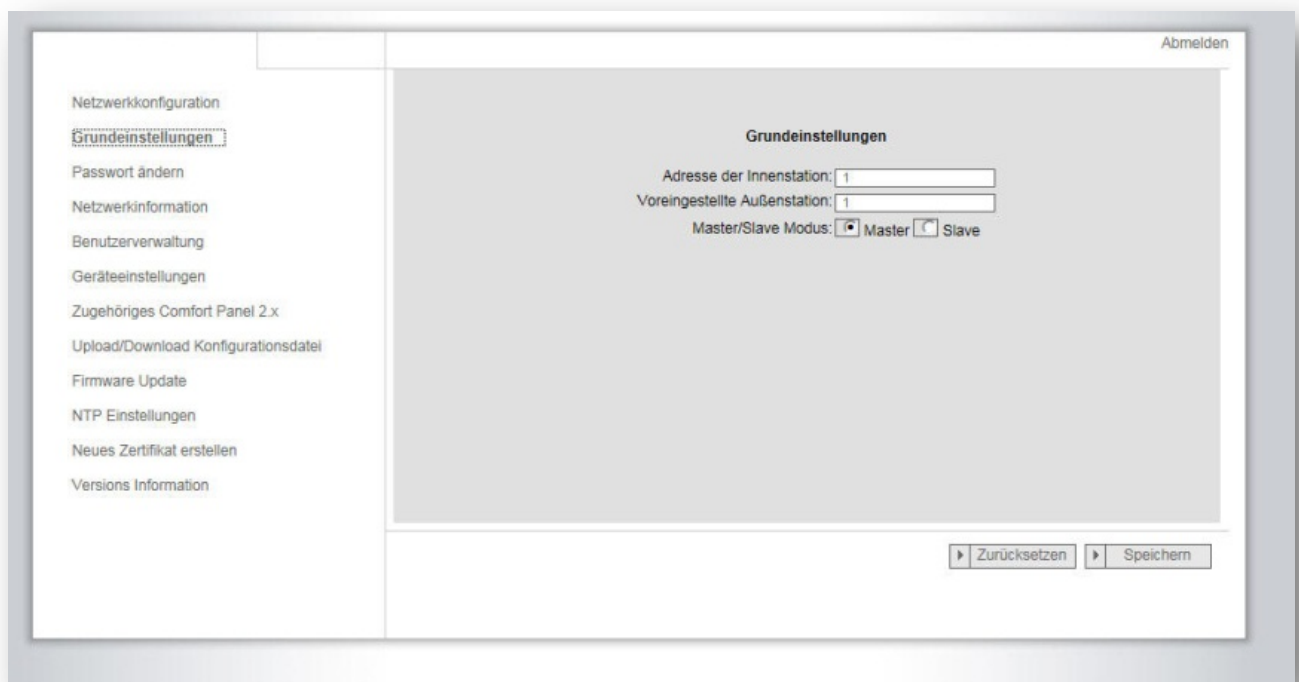


Fig. 8: "Basic settings" configuration page

You can adjust the basic settings for the IP gateway on the "Basic settings" configuration page.

### Address of the indoor station

The address of the indoor station indicates which call button on the outdoor station is used to control the IP gateway.



#### Note

Up to 4 mobile terminal devices and **Busch-ComfortTouch®** can be connected to a call button.

### Default outdoor station

The address of the default outdoor station is the station set as the preferred outdoor station. One audio and video connection also without incoming door call can be set up for this station.

### Master / slave mode

When more than one indoor station is installed in the apartment (same addresses), one station must be configured as master and others as slave.

## 6.6 "Change password" configuration page

logout

Network Configuration

Basic settings

**Modify Password**

Network Information

User Management

Device settings

Associated ComfortTouch 2.x

Import / Export Configuration

Firmware Update

Date and Time Settings

Generate certification file

Version Information

**Modify Password**

Current Password:

New Password:

Confirm new Password:

Reset Save

Fig. 9: "Change password" configuration page

You can change the password on this configuration page.

### **Current password**

Enter the password previously used.

### **New password**

Enter your new password.

### **Confirm new password**

Enter your new password again.



### **Note**

You can only change the password for the currently active user. Please follow the general recommendations for generating strong passwords.

## 6.7 "User management" configuration page

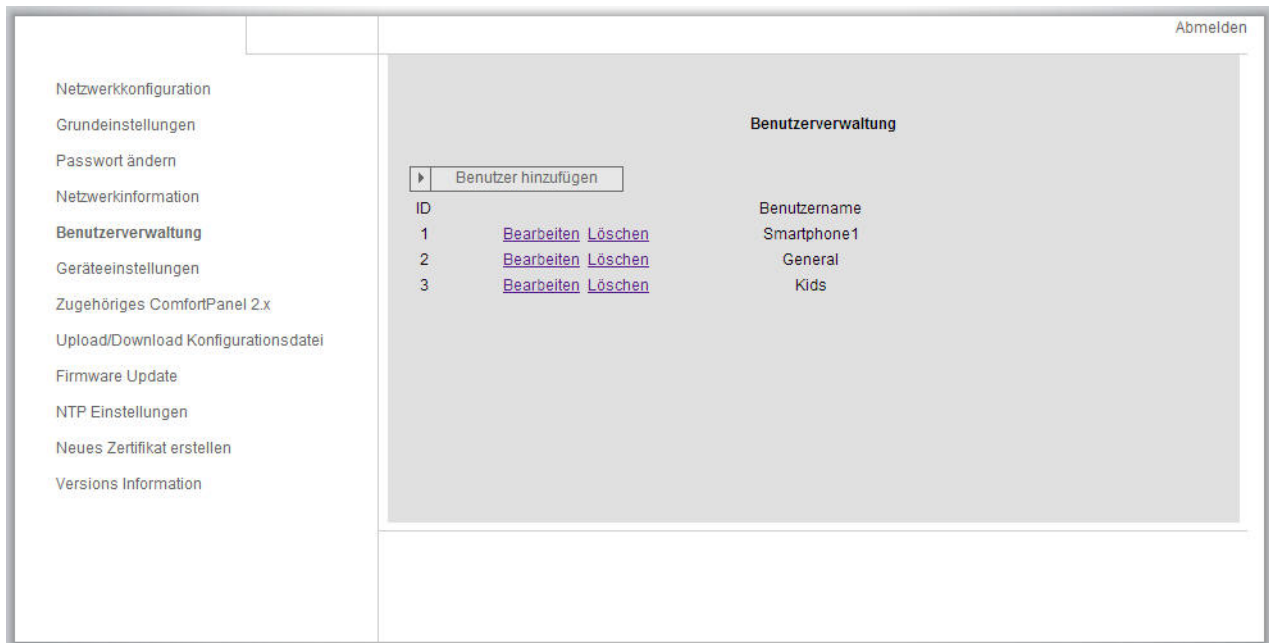


Fig. 10: "User management" configuration page

You can create up to three new users and administer your user settings on this configuration page.

### ID

The ID is the sequential number of the user.

### User name

All assigned accounts are displayed under "User name". Several devices can be logged in under each account. You have the option of deleting the user or editing the settings.

### Add user

Click the "Add user" button to create a new user.

1. Click the "Add user" button.

The description of the "Create new user" configuration page explains this function.

### Edit

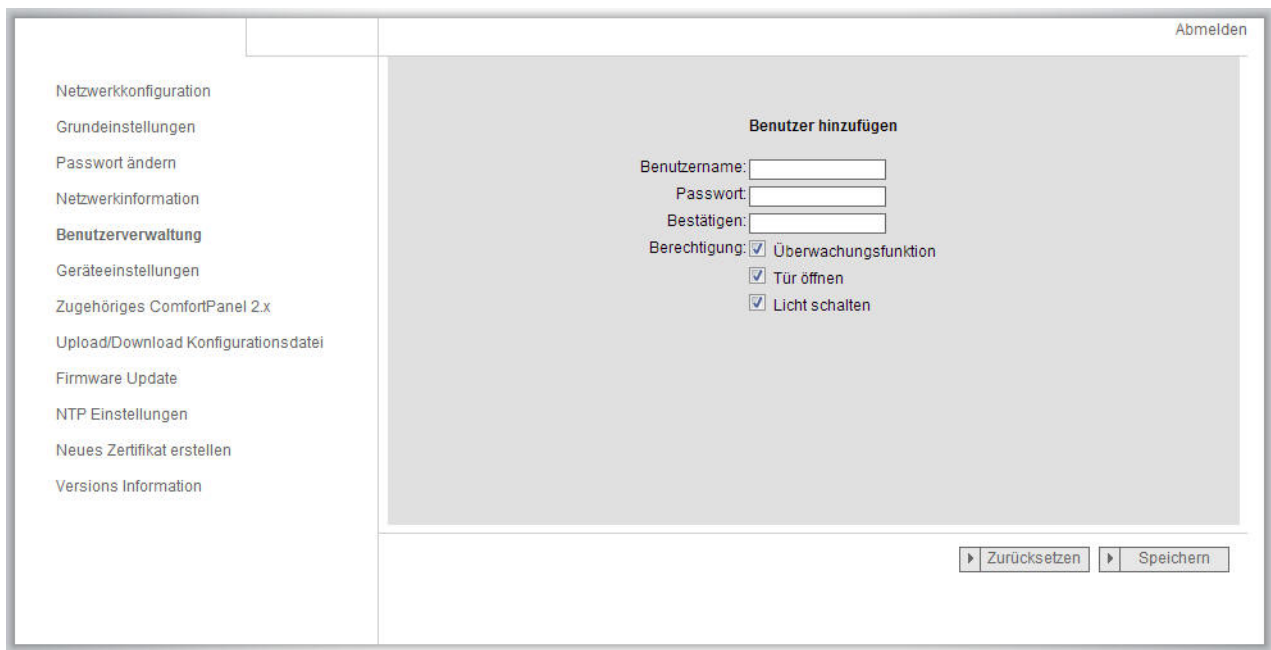
Click the "Edit" button to change your personal user settings.

The "Add user" configuration page opens. The current user appears and can be edited.

### Delete

Click the "Delete" button to remove a user from the list.

### 6.7.1 "Add user" configuration page



The screenshot shows the 'Benutzer hinzufügen' (Add user) configuration page. On the left is a sidebar menu with options: Netzwerkkonfiguration, Grundeinstellungen, Passwort ändern, Netzwerkinformation, **Benutzerverwaltung**, Geräteeinstellungen, Zugehöriges ComfortPanel 2.x, Upload/Download Konfigurationsdatei, Firmware Update, NTP Einstellungen, Neues Zertifikat erstellen, and Versions Information. The main area is titled 'Benutzer hinzufügen' and contains input fields for 'Benutzername:', 'Passwort:', and 'Bestätigen:'. Below these are three checked checkboxes under 'Berechtigung:': 'Überwachungsfunktion', 'Tür öffnen', and 'Licht schalten'. At the top right of the main area is a link 'Abmelden'. At the bottom right are two buttons: 'Zurücksetzen' and 'Speichern'.

Fig. 11: "Add user" configuration page

The "Add user" configuration page opens.

#### User name

Enter the name of the new user in the "User name" input field.  
A total of 3 different users with different roles can be created.

#### Password

Enter the required password of the new user in the "Password" input field.

#### Confirm

Enter the required password of the new user again in the "Confirm" input field.



#### Note

When specifying the user name, use characters without umlauts and numbers only, e.g. Smartphone1. Spaces and special characters are not allowed.

#### Permission

You can assign the following permissions to the user:

#### Monitoring function

The user can use the Welcome app to establish a video connection to the outdoor station (e.g. using a smartphone or tablet) without there being a door call.

### Open door

Specify if the door can be opened by a smartphone, for example, or if only the incoming call and video signal are transmitted.

### Switch on/off the light

This function is only available if the lighting, e.g. the staircase lighting, can be switched on/off directly from the Busch-Welcome® system.

### Save new user

1. Click the "Save" button.  
The new user is saved.

The "User management" configuration page opens.

To activate the new user, the IP gateway must be restarted by clicking the "*Restart*" button.

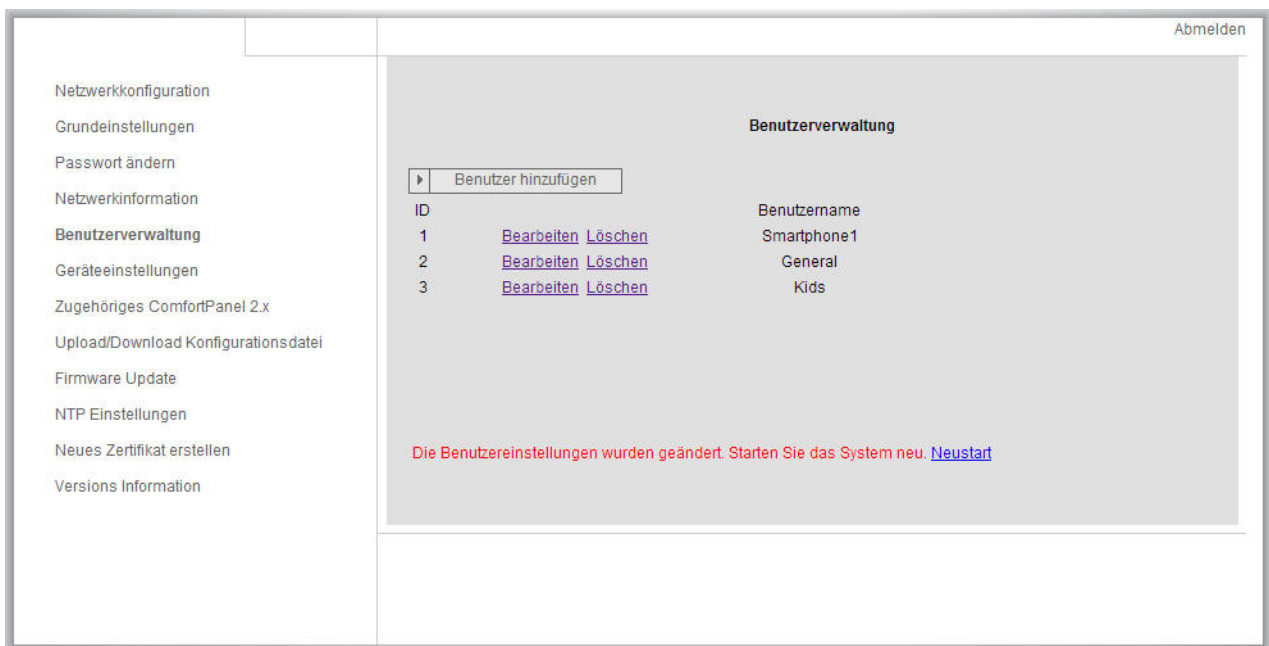


Fig. 12: Restarting the IP gateway



### Note

Make all required system settings before you create new users.

2. Click the "Restart" button.  
The IP gateway restarts! The new user is activated.

### 6.7.2 Login with new user name

1. Enter the noted IP address in your browser.
2. Log in as a new user.

The new user is now logged in.

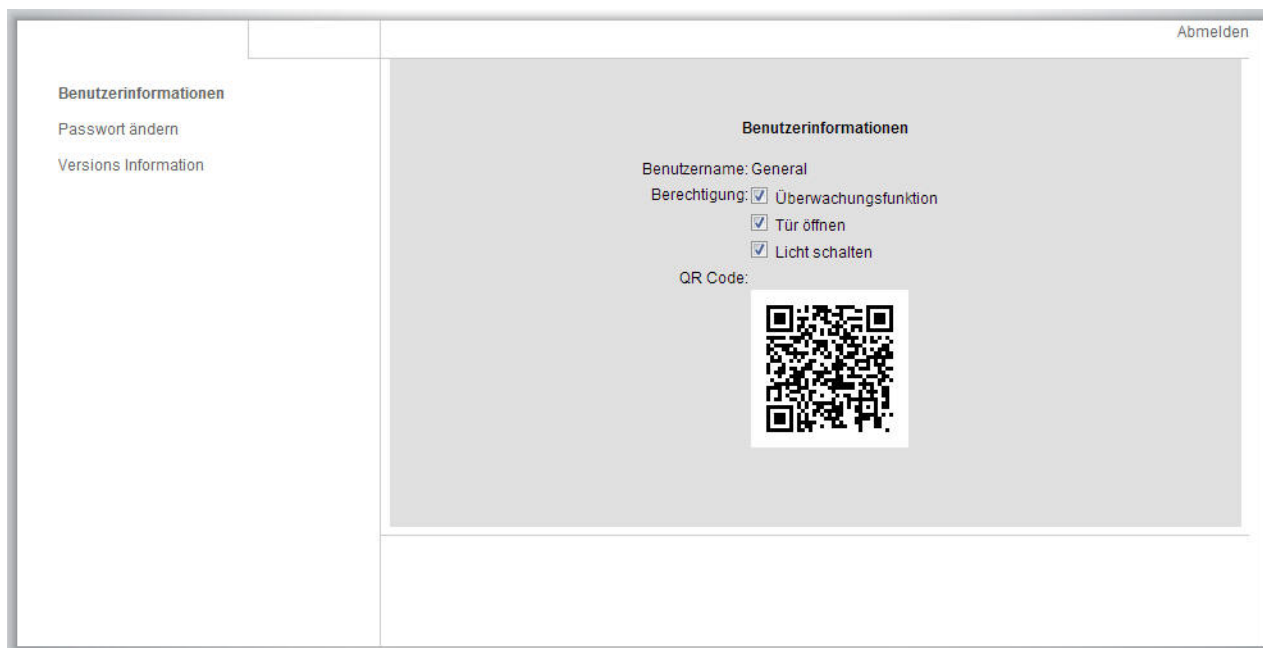


Fig. 13: Login with new user name

The information of the new user appears.

#### User name

The name of the new user appears.

#### Permission

The permissions appear here.

The permissions cannot be changed.

### QR code

The QR for integrating mobile end devices appears here. During the configuration the terminal device must be located in the same network as the IP gateway.

Please note the following:

- The respective user, e.g. "Smartphone1" must be logged in to generate a configuration QR code for connecting mobile end devices. The QR code for quick configuration appears immediately after logging in.
- If **Busch-ComfortTouch**® series 3.0 or higher is to be integrated, the user and IP address of the IP gateway must be entered on the "*Telephony / Door Entry*" application page IP-Project 3 (IPP 3). See chapter Integrating a Busch-ComfortTouch® 3.0 or higher.

#### 6.7.2.1 Change password

You can change the password here.



#### Note

You can only change the password for the currently active user. Please follow the general recommendations for generating strong passwords.

## 6.8 "Device settings" configuration page



Fig. 14: "Device settings" configuration page

All outdoor stations to be connected to the IP gateway (max. 4) must be listed in the [Device settings](#).

### Add device:

You can add individual devices on this page.

For the next steps, see the "Add devices" section below.

The configuration page displays a list of added devices.

### ID

The ID is the sequential number of the device.

### Edit

Click the "Edit" button to change your settings.

The current settings appear and can be modified.

### Delete

Click the "Delete" button to remove a user from the list.

### Device type

This is the device type description.

### Device ID

The ID is the address of the outdoor station (If there is only one outdoor station, the ID as a rule is 1).

### Name

When using the ABB-Welcome app, the name is shown.

### 6.8.1 Add device

Fig. 15: "Add device" configuration page

#### Device type

Select the required device type from the "Device type" drop-down list.



#### Note

The floor call button is already set up as the default device. The device name can be adjusted as required.

#### Device ID

Enter the address set on the first control dial of the outdoor station (1 – 4).

#### Name

The device name, e.g. for incoming calls, appears on the display of the mobile device or **Busch-ComfortTouch®**. Assign intuitive names, e.g. "Front door".

#### Permission

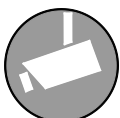
Whether the option to automatically record images (snapshots) is permitted can be specified for each outdoor station individually.

#### Edit

The "Edit" button can be used to edit the settings of all devices.

#### Delete

The "Delete" button can be used to remove individual devices.



#### Note

Making and saving video recordings can infringe on personal rights!  
Always observe applicable legal and labeling requirements for placement and operation of video components!

## 6.9 "Associated ComfortTouch 2.x" configuration page

Fig. 16: "Associated **Busch-ComfortTouch**® 2.x" configuration page

The IP gateway can be used to control one **Busch-ComfortTouch**® of the series 2.x. The **Busch-ComfortTouch**® firmware must be version 2.4 or higher.

1. Create a user, e.g. ComfortTouch1.
2. Set the compatibility mode to "Yes".
3. Enter the IP address of the **Busch-ComfortTouch**® in the "ComfortTouch 2.x address" field.
4. Create a configuration project in IPP 2.4 for the **Busch-ComfortTouch**®, "Door communication" application page.
5. Enter the IP address of the IP gateway in the "Outdoor station" tab in the "Outdoor station IP address" menu box.
6. Enter the address of the outdoor station.



### Note

If you want to remove a **Busch-ComfortTouch**® 2.x that is already connected to the Busch-Welcome® system, simply set compatibility mode to "**No**". The address does not have to be deleted.

#### 6.10 "Upload / download configuration file" configuration page

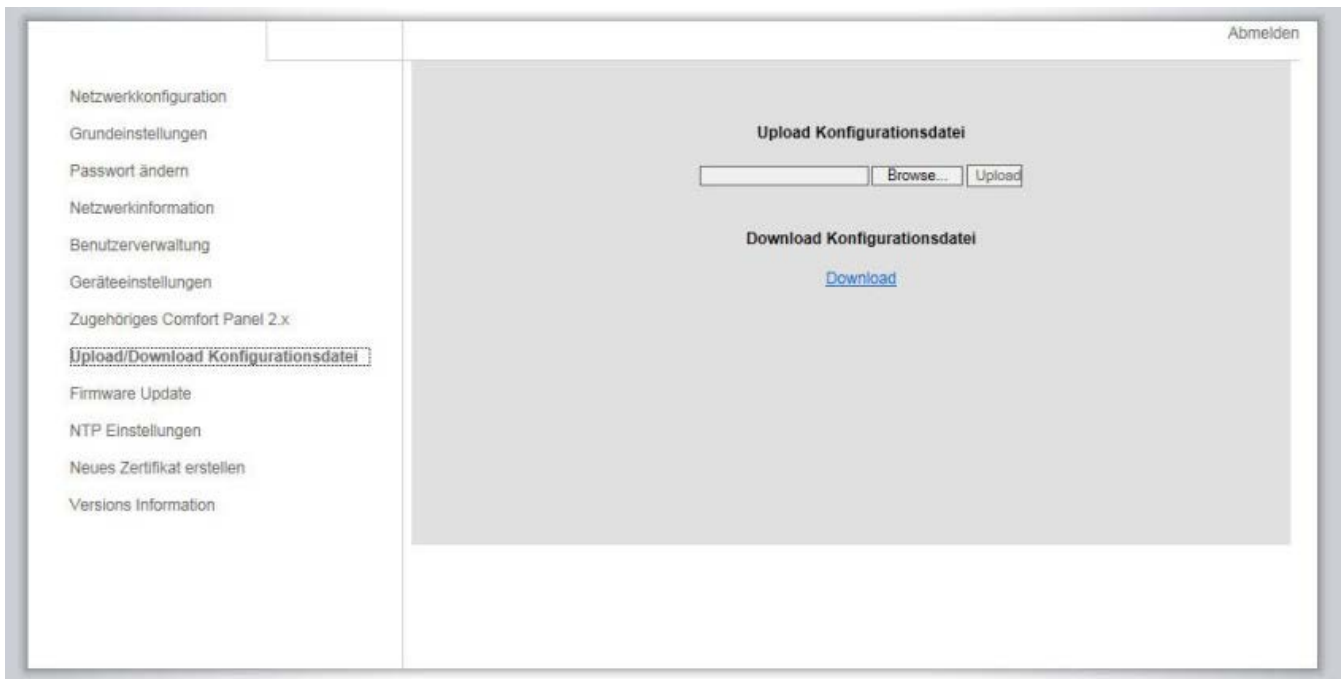


Fig. 17: "Upload / download configuration file" configuration page



#### Note

The option to create and replace an IP gateway configuration file is for service purposes only and should only be used by the Busch-Jaeger Service Center on request for diagnosing errors.

### 6.11 "Firmware Update" configuration page



Fig. 18: "Firmware Update" configuration page

The IP gateway has the option to manually update the device software.



#### Note

Device updates are not normally required and should only be carried out for troubleshooting purposes.



#### Note

Before updating the firmware, always check if the update bears a date more recent than the software already installed. See also the section "Version information".  
Updating the device software clears ALL device settings.

1. Check if there is a firmware update on the Busch-Jaeger product page "[www.busch-jaeger-katalog.de/8300-0-0328,artikel.html](http://www.busch-jaeger-katalog.de/8300-0-0328,artikel.html)".  
The software (Zip archive) and documentation on how to perform an update is located in the right column under the "*Software*" menu item.
2. Save the Zip archive to a local directory.
3. Select the file from the "*Browse...*" menu box. Follow the instructions in the Help file to perform the update..
4. The update process can take a few minutes.  
Wait for the update process to complete.
5. Restart the IP gateway.  
Disconnect the IP gateway from the mains voltage and switch it on again.

## 6.12 "NTP settings" configuration page

Fig. 19: "NTP settings" configuration page

The "NTP (Network Time Protocol) settings are used to define with which time signal the IP gateway is synchronised.

There are two options for synchronisation:

### Synchronisation via the Internet

1. Select the Internet time (NTP) setting.
2. Add an NTP server.  
The "ntp.nasa.gov" server is already preset.
3. Set the time zone for your location.
4. Save your entries.

### Synchronisation via Busch-ComfortTouch® 3.x or by mobile device

1. Select the setting from the app or **Busch-ComfortTouch® 3.x**.  
The IP gateway takes its time settings from the panel or from a mobile end device.

### 6.13 "Create a new certificate" configuration page



Fig. 20: "Create a new certificate" configuration page

Certificates are required to guarantee the trust of network nodes during data transmission. The certificate of the IP gateway does not normally have to be recreated.

If a new certificate has been created, the system then has to be restarted.

#### 6.14 "Versions Information" configuration page



Fig. 21: "Version Information" configuration page

The "Version Information" configuration page provides information about the hardware and software components of the IP gateway and is required for service purposes or error diagnostics.



#### Note

Before updating the firmware, always check if the update bears a date more recent than the software already installed.

The firmware creation date is in the file name and version information in the format YYYYMMDD.

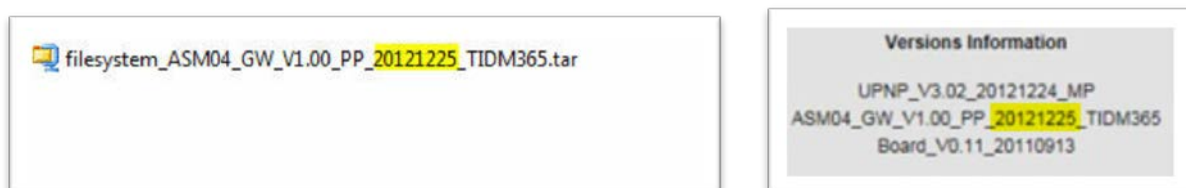


Fig. 22: Creation date, position of the firmware

The figures above provide examples of a Zip archive with the creation date 25.12.2012 and the corresponding version information.

## 7 Integrating mobile end devices with the Busch-Welcome® app

You can add end devices to the Busch-Welcome® system from the Busch-Welcome® app. The Busch-Welcome® app is available in two versions and supports the iOS and Android operating systems.

You can download the Busch-Welcome® app from Google Play or the Apple App Store directly by scanning the adjacent QR code. Apple and Android devices can open the link.



### 7.1 Android version 4.0 or higher

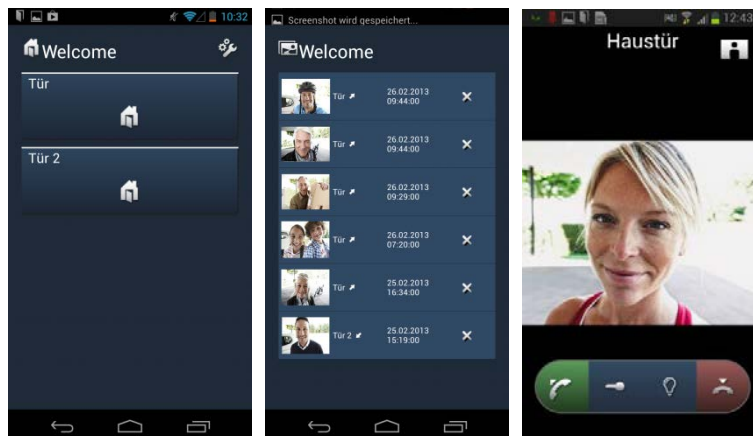



Figure. 23: Android Version 4.0 or higher

1. Install the Busch-Welcome® app from Google Play on your smartphone or tablet PC.
2. Create a user, e.g. Smartphone1, in the IP gateway or log into a corresponding user account. See section "Create new user".

There is a QR code below the user information.

3. Open the settings menu  in the Busch-Welcome® app.
4. Open the "Network settings" menu entry.  
The QR code is used to activate the camera via the "Quick configuration".
5. Photograph the IP gateway QR code (see section "Login with new user name").  
The ABB-Welcome app is automatically configured and applies all settings required for operation.

## 7.2 iOS version 4 / 5 and iPad

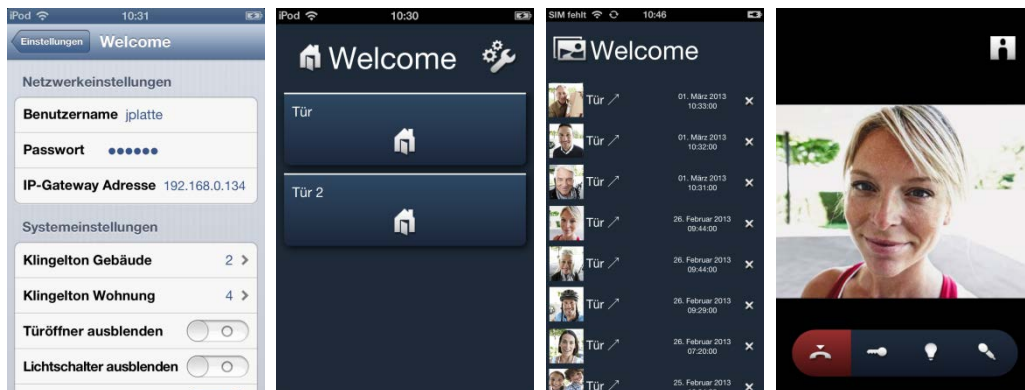


Fig. 24: iOS (Apple) version 4 or higher

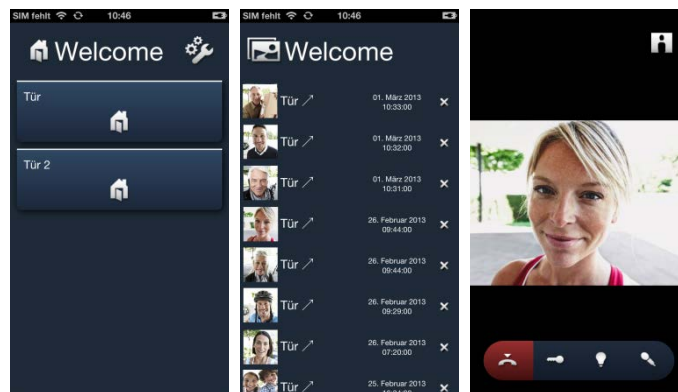


Fig. 25: iOS (Apple) version 5 or higher

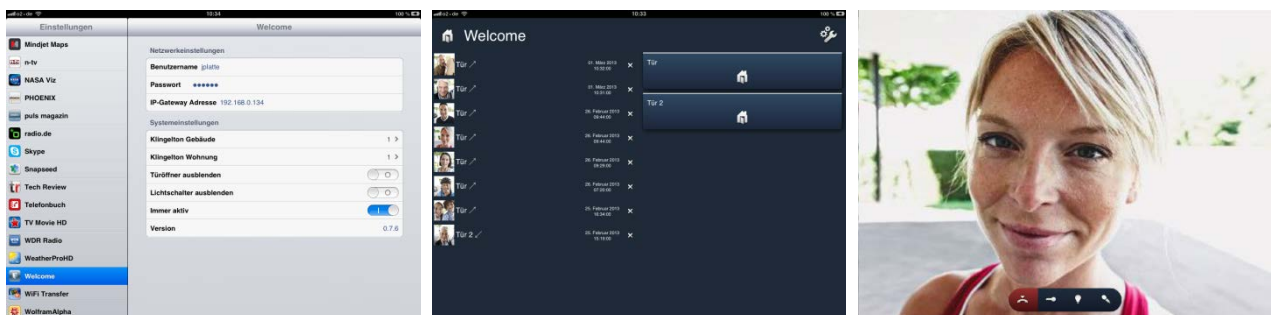



Fig. 26: iPad

1. Install the Busch-Welcome® app from the Apple App Store on your smartphone or tablet PC.
2. Create a user, e.g. Smartphone1, in the IP gateway or log into a corresponding user account. See section "Login with new user name".  
There is a QR code below the user information.
3. Open the settings menu  in the Busch-Welcome® app.
4. Open the "Network settings" menu entry.  
The QR code is used to activate the camera via the "Quick configuration".
5. Photograph the IP gateway QR code (see section "Login with new user name"). The ABB-Welcome app is automatically configured and applies all settings required for operation.

The configuration can also be carried out manually. See section "Integration via manual configuration".

## 8 Integrating a **Busch-ComfortTouch®** 3.0 or higher

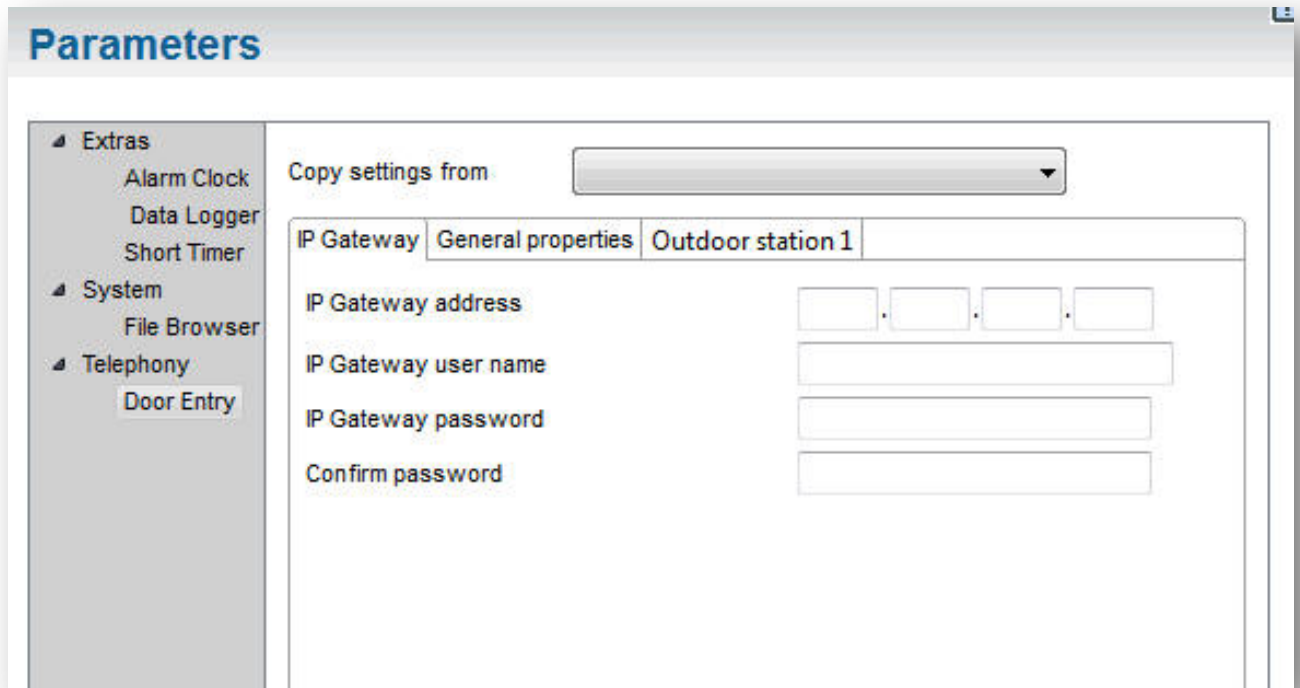


Fig. 27: Integrating **Busch-ComfortTouch®** 3.0 or higher

The **Busch-ComfortTouch®** series 3.0 or higher can be connected to a Busch-Welcome® system directly via the IP gateway.

1. Create a user, e.g. ComfortTouch1, in the IP gateway. See section "Create new user".
2. Create a configuration project in IPP 3.x for the **Busch-ComfortTouch®**, a "Door Entry" application page.
3. Enter the "IP gateway address" and user in the "IP Gateway" tab.



### Note ...

A detailed user description is available in the IPP online help.

## 9 Technical data

### 9.1 Overview table

<b>General</b>	
Operating temperature	-5 ...45°C
Protection type (only for related installation)	IP 20
Single-wire clamps	2 x 0.6 ... 2 x 1 mm <sup>2</sup>
Fine-wire clamps	2 x 0.6 ... 2 x 0.75 mm <sup>2</sup>
Size	10 TE
Bus input voltage	20 ... 30 V DC

9.2 Device connection / circuit diagram

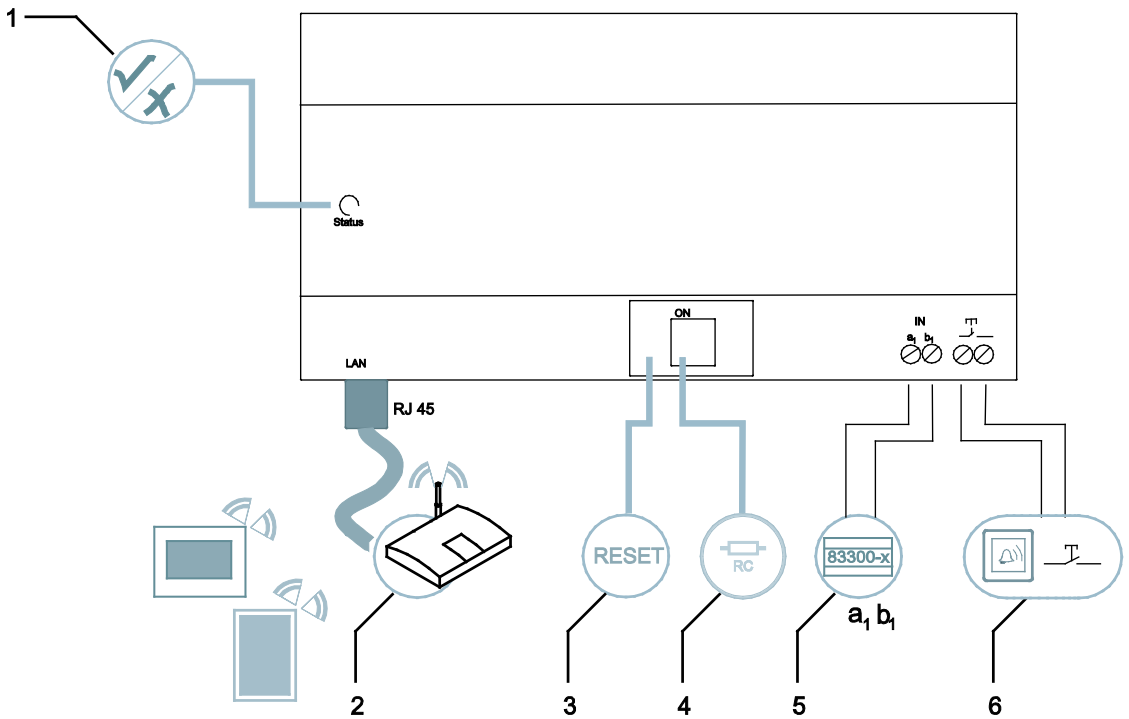

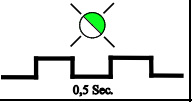
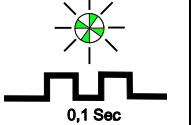


Fig. 28: Connection

1 LED | 2 LAN connection | 3 Reset | 4 Terminal resistor | 5 System controller / internal bus | 6 Floor call button

LED

	ready
	Bus activity
	Fault

LAN connection

The LAN connection is made via the RJ 45 jack on the WLAN router.

Reset

Here is the Reset button.

System controller / internal bus

a<sub>1</sub> System controller

b<sub>1</sub> Internal bus

Floor call button

The floor call button is connected here.

### 9.3 Dimensions / dimensional drawing

The dimensions of the IP gateway are indicated in the following image.

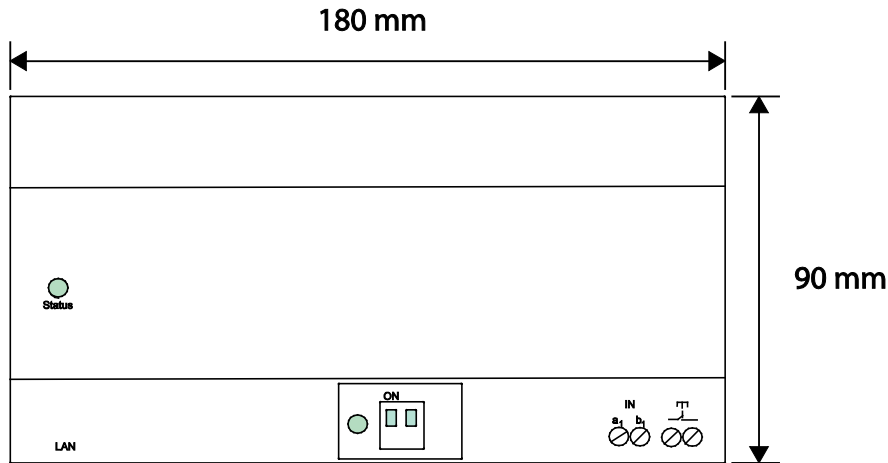


Fig. 29: Dimensional drawing

The depth of the device is 65 mm.

The module width is 10 MW.

## 10 Product overview

### 10.1 Device setup

The IP gateway is a Busch-Welcome® door communication system and is used for door communication and video transmission.

- The IP address makes communication possible between the Busch-Welcome® door communication and the local IP network.
- It also allows use of the **Busch-ComfortTouch®** as door communication indoor station and a Busch-Welcome® app.

## 11 Installation and electrical connection



### Warning

#### Electric voltage!

Risk of death due to electrical voltage of 230 V during short-circuit in the low-voltage line.

- Low-voltage and 230 V lines must not be installed together in a flush-mounted socket!

### 11.1 Requirements for the electrician



### Warning

#### Electric voltage!

Install the device only if you have the necessary electrical engineering knowledge and experience.

- Incorrect installation endangers your life and that of the user of the electrical system.
- Incorrect installation can cause serious damage to property, e.g. due to fire.

The minimum necessary expert knowledge and requirements for the installation are as follows:

- Apply the "five safety rules" (DIN VDE 0105, EN 50110):
  1. Disconnect from power;
  2. Secure against being re-connected;
  3. Ensure there is no voltage;
  4. Connect to earth and short-circuit;
  5. Cover or barricade adjacent live parts.
- Use suitable personal protective clothing.
- Use only suitable tools and measuring devices.
- Check the supply network type (TN system, IT system, TT system) to secure the following power supply conditions (classic connection to ground, protective earthing, necessary additional measures, etc.).



### Warning

#### Electric voltage!

Risk of death and fire due to electrical voltage of 230 V.

- Work on the 230V supply system may only be performed by authorised electricians!
- Disconnect the mains power supply prior to installation and/or disassembly!

### 11.2 Mounting

The MDRC must only be installed on mounting rails according to DIN EN 500022. The MDRC is latched onto the mounting rail.

A member of the ABB Group

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